



Mit-0506.ST25.txt
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<110> Chen, Jianzhu
Ge, Qing
Eisen, Herman

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<140> 10/674,159

<141> 2003-09-29

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gccataggcc aggtttcaag gcccatgttc ttgtatgtga ggacaaatgg aacctcaaaa	1740
attaaaatga aatggggaat ggagatgagg cgttgctctc tccagtcact tcaacaaatt	1800
gagagtatga ttgaagctga gtcctctgtc aaagagaaaag acatgaccaa agagttcttt	1860
gagaacaaat cagaaacatg gccattgga gagtctccca aaggagtgga ggaaagtctc	1920
attgggaagg tctgcaggac ttatttagca aagtcggtat ttaacagctt gtatgcatct	1980
ccacaactag aaggattttc agctgaatca agaaaactgc ttcttatcgt tcaggctctt	2040
agggacaatc tggaacctgg gacctttgat cttggggggc tatatgaagc aattgaggag	2100
tgccctaatta atgatccctg ggttttgctt aatgcttctt ggttcaactc cttccttaca	2160
catgcattga gttagtgtg gcagtgtac tatttgctat ccatactgtc caaaaaagta	2220

ccttgtttct act

2233

<210> 122

<211> 2183

<212> DNA

<213> Influenza virus type A PA segment

<400> 122

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agcgaaagca ggtactgatt caaaatggaa gattttgtgc gacaatgctt caatccgatg      60
attgtcgcagc ttgcggaaaa ggcaatgaaa gagtatggag aggacctgaa aatcgaaaca      120
aacaaaatttg cagcaatatg cactcacttg gaagtgtgct tcatgtattc agattttcac      180
ttcatcgatg agcaaggcga gtcaatagtc gtagaacttg gcgatccaaa tgcacttttg      240
aagcacagat ttgaaataat cgaggggaaga gatcgacaaa tagcctggac agtaataaac      300
agtatttgca aactacagg ggctgagaaa ccaaagtffc taccagattt gtatgattac      360
aagaagaata gattcatcga aattggagta acaaggagag aagttcacat atactatctg      420
gaaaaggcca ataaaattaa atctgagaag acacacatcc acattttctc attcactggg      480
gaggaaatgg ccacaaaggc cgactacact ctcgatgaag aaagcagggc taggatcaaa      540
accaggctat tcaccataag acaagaaaatg gctagcagag gcctctggga ttcctttcgt      600
cagtccgaga gaggcgaaga gacaattgaa gaaagatttg aaatcacagg aacaatgcgc      660
aagcttgccg accaaagtct cccgccaaac ttctccagcc ttgaaaattt tagagcctat      720
gtggatggat tcgaaccgaa cggctacatt gagggcaagc tttctcaaat gtccaaagaa      780
gtaaatgcta gaattgaacc ttttttgaaa tcaacaccac gaccacttag acttccggat      840
gggcctccct gttctcagcg gtccaaattc ctgctgatgg atgccttaaa attaagcatt      900
gaggacccaa gtcatgaggg agaggggata ccgctatatg atgcaatcaa atgcatgaga      960
acattctttg gatggaagga acccaatgtt gttaaaccac acgaaaaggg aataaatcca     1020
aattatcttc tgtcatggaa gcaagtactg gcagaactgc aggacattga gaatgaggag     1080
aaaattccaa ggactaaaaa tatgaagaaa acgagtcagt taaagtgggc acttggtgag     1140
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aaggcatgtg aactgaccga ttcaagctgg atagagctcg atgagattgg agaagatgcg     1320
gtccaattg aacacattgc aagcatgaga aggaattatt tcacagcaga ggtgtctcat     1380
tgcagagcca cagaatacat aatgaagggg gtgtacatca atactgcctt gcttaatgca     1440
tcctgtgcag caatggatga tttccaatta attccaatga taagcaagtg tagaactaag     1500
gaggggaaggc gaaagaccaa tttgtacggt ttcatcataa aaggaagatc ccacttaagg     1560
aatgacaccg atgtggtaaa ctttgtgagc atggagtttt ccctcactga cccaagactt     1620

```

Mit-0506.ST25.txt

```

gaaccacaca aatgggagaa gtactgtgtt cttgaggtag gagatatgct tctaagaagt 1680
gccataggcc atgtgtcaag gcctatgttc ttgtatgtga ggacaaatgg aacctcaaaa 1740
attaaaatga aatgggggat ggaaatgagg cgttgcctcc ttcagtcact tcaacaaatc 1800
gagagtatga ttgaagctga gtcctctgtc aaggagaaaag acatgaccaa agagtctttt 1860
gaaaacaaat cagaaacatg gcccgttggg gagtcccca aagtcggtat tcaacagctt 1920
gtatgcatct ccacaactgg aaggattttc agctgaatca agaaaactgc ttcttatcgt 1980
tcaggctctt agggacaacc tggaacctgg gacctttgat cttggggggc tatatgaagc 2040
aattgaggag tgcctgatta atgatccctg ggttttgctt aatgcttctt ggttcaactc 2100
cttcctcaca catgcattga gatagttgtg gcaatgctac tatttgctat ccatactgtc 2160
caaaaaagta ccttgtttct act 2183

```

<210> 123

<211> 2233

<212> DNA

<213> Influenza virus type A PA segment

<400> 123

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agcaaaagca ggtactgatc cgaaatggaa gaatttgtgc gacaatgctt caatccgatg 60
attgtcgagc ttgctgaaaa agcaatgaaa gagtatggag aggatcggaa aatcgaaaca 120
aacaattttg cagcaatatg cactcacttg gaagtatgct tcatgtattc agattttcat 180
ttcatcaatg agcaaggcga gtcaataata gtagagcttg atgatccaaa tgcacttttg 240
aagcacagat ttgaaataat agaggggaaga gatcgacaaa tggcctggac agtagtaaac 300
agtatttgca aactacagg agctgagaaa ccgaagtttc tgccagattt gtatgattac 360
aaggagaata gattcatcga gattggagtg acaaggaggg aagtccacat atactatctt 420
gaaaaggcca ataaaattaa atctgagaag acacacatcc acattttctc attcactggg 480
gaagaaatgg ccacaaaggc cgactacact ctcgatgagg aaagcagggc taggatcaag 540
accagactat tcaccataag acaagaaatg gctagcagag gcctctggga ttcctttcgt 600
cagtccgaaa gaggcgaaga aacaattgaa gaaagatttg aaatcacagg gacaatgcgc 660
aggctcgccg accaaagtct cccgccgaac ttctcctgcc ttgagaattt tagagcctat 720
gtggatggat tcgaacccaa cggtctacatt gagggcaagc tttctcaa atgtccaaagaa 780
gtaaatgcta aaattgagcc ttttctgaaa acaacaccaa gaccaattaa acttccggat 840
gggcctcctt gctctcagcg gtccaaattc ctgctgatgg atgctttaaa attaagcatt 900
gaggacccaa gtcacgaagg agaggggaata ccactatatg atgcatcaa gtgtatgaga 960
acattctttg gatggaaaga accctatggt gttaaaccac acgataaggg aataaatcca 1020
aattatctgc tgtcatggaa gcaattactg gcagaactgc aggacattga gaatgaggag 1080

```

Mit-0506.ST25.txt

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aagattccaa gaaccaaaaa catgaagaaa acgagtcagc taaagtgggc acttggtgag 1140
aacatggcac cagagaaggt agactttgac gactgtagag atataagcga tttgaagcaa 1200
tatgatagtg atgaacctga attaaggtca ctttcaagct ggatccagaa tgagtccaac 1260
aaggcatgcg agctgaccga ttcaatctgg atagagctcg atgagattgg agaagatgtg 1320
gctccaattg aacacattgc aagcatgaga aggaattact tcacagcaga ggtgtctcag 1380
tgacagacca cagaatatat aatgaagggg gtatacatta atactgcctt gcttaatgca 1440
tcctgtgcag caatggacga tttccaacta attcccatga taagcaaatg tagaactaaa 1500
gaggggaaggc gaaagaccaa tttatatggt ttcatacataa aagggaagatc tcacttaagg 1560
aatgacaccg acgtggtaaa ctttgtgagc atgggagttt ctctcactga cccaagactt 1620
gagccacaca aatgggagaa gtactgtgtt cttgagatag gagatatgct actaagaagt 1680
gccataggcc aggtgtcaag gcccatgttc ttgtatgtga ggacaaatgg aacatcaaag 1740
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gagagtatga ttgaagccga gtcctctgtc aaggagaaaag acatgaccaa agagtttttc 1860
gagaataaat cagaaacatg gcccatgtga gagtcccca aaggagtgga agaagggttc 1920
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agggacaatc ttgaacctgg gacctttgat cttggggggc tatatgaagc aattgaggag 2100
tgcttgatta atgatccctg ggttttgctt aatgcgtctt ggttcaactc cttcctaaca 2160
catgcattaa gatagtgtg gcaatgctac tatttgctat ccatactgtc caaaaaagta 2220
ccttgtttct act 2233

```

```

<210> 124
<211> 2209
<212> DNA
<213> Influenza virus type A PA segment

```

```

<400> 124
atggaagatt ttgtacgaca atgctttaat ccgatgattg tcgaacttgc ggaaaaggca 60
atgaaagagt atggagagga tcttaaaatc gaaacaaaca aatttgcagc aatatgcact 120
cacttggaag tatgcttcat gtattcagat tttcatttca tcaatgagca aggcgagtca 180
atagtggtag aacttgatga tccaaatgca cttttgaagc acagatttga aataatagag 240
ggaagagacc gcacaatggc ctggacagta gtaaacagta tttgcaacac cacaggagct 300
gagaaaccga agtttctgcc agatttgtat gattacaagg agaatagatt catcgagatt 360
ggagtgacaa ggagagaagt ccacatatac taccttgaaa aggccaataa aattaaatct 420
gagaatacac acatccacat tttctcattc actgggggaag aaatggccac aaaggccgac 480

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Mit-0506.ST25.txt

tacactctcg atgaggaaaag caggggctagg atcaaaacca gactattcac cataagacaa	540
gagatggcca acagaggcct ctgggattcc tttcgtcagt ccgaaagagg cgaagaaaca	600
attgaagaaa gatttgaaat cacagggaca atgcgcaggc ttgccgacca aagtctccccg	660
ccgaacttct cctgccttga gaattttaga gcctatgtgg atggattcga accgaacggc	720
tacattgagg gcaagctttc tcaaagtgtc aaagaagtga atgcaaaaat tgaacctttt	780
ctgaaaacaa caccaagacc aattagactt ccggatggggc ctccttgttt tcagcgggtcc	840
aaattccttc tgatggatgc tttaaagtta agcattgagg atccaagtca cgaggggggag	900
ggaataccac tatatgatgc gatcaaatgc atgagaacat tttttggatg gaaagaaccc	960
tatattgtta aaccacacga aaaggggata aatccaaatt atctgctgtc atggaagcaa	1020
gtactggcag aactgcagga cattgaaaat gaggagaaaa ttccaagaac taaaaacatg	1080
aagaaaacga gtcagctaaa gtgggcactt ggtgagaaca tggcaccaga gaaggtagac	1140
tttgacaact gtagagacgt aagcgatttg aagcaatatg atagtgcga acctgaatta	1200
aggtcacttt caagctggat ccagaatgag ttcaacaagg catgcgagct gaccgattca	1260
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caactaattc ccatgataag caagtgtaga actaaagaag gaaggcgaaa gaccaattta	1500
tatggcttca tcataaaagg aagatctcac ttaaggaatg acaccgacgt ggtaaacttt	1560
gtgagcatgg agttttctct cactgacccg agacttgagc cacacaaatg ggagaaatac	1620
tgtgtccttg agataggaga tatgtacta agaagtgtc taggccagat gtcaaggcct	1680
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gagtcaagaa aactgcttct tgtcgttcag gctcttaagg acaatcttga acctggaacc	2040
tttgatcttg aggggctata tgaagcaatt gaggagtgcc tgattaatga tccctggggt	2100
ttgcttaatg cgtcgtgggt caactccttc ctaacacatg cattaagata gttgtggcaa	2160
tgctactatt tgctatccat actgtccaaa aaagtacctt gtttctact	2209

<210> 125
 <211> 2233
 <212> DNA

<213> Influenza virus type A PA segment

<400> 125

agcaaaagca ggtactgatc caaaatggaa gactttgtgc gacaatgctt caatccaatg	60
attgtcgagc ttgcggaaaa gacaatgaag gagtatgggg aagatccgaa gattgaaaca	120
aacaagttcg ctgcaatatg cacacactta gaagtctgct tcatgtattc agacttccat	180
ttcattgacg aacgaggcga atcaataatt gtggaatctg gtgatccgaa tgcattgttg	240
aaacaccggt ttgaaataat tgaaggaaga gaccgagcaa tggcctggac agtgggtgaat	300
agcatctgca acaccacagg agtcgataaa cccaaatttc ttccggatct atacgactac	360
aaggaaaacc gattcactga aattggtgtg acacggaggg aagttcatat atattactta	420
gagaaagcta acaagataaa atccgagaaa acacatatcc acatcttctc attcactgga	480
gaagaaatgg ccactaaagc tgactacacc cttgatgaag agagcagggc aagaatcaaa	540
accagactat tcaccataag acaggaaatg gcaagcaggg gtctatggga ctcttttcgt	600
cagtccgaga gaggcgaaga gacaattgaa gaaagatttg aaatcacagg gaccatgcgt	660
aggcttgccg accaaagtct cccacctaac ttctccagcc ttgaaaactt tagagcctat	720
gtggatggat ttaaaccgaa cggctgcatt gagggcaagc tttctcaa atgtcgaaagaa	780
gtgaacgcc aatttgagcc atttctgaag acaacaccac gtcctctcag attgcctgat	840
ggacctccct gctcccagcg gtcgaaattc ttgctgatgg atgctctgaa attaagcatt	900
gaggaccgga gccatgaggg ggaggggata ccgctatatg atgcgatcaa atgcatgaaa	960
acattctttg gctggagaga gcccacatc atcaaaccac acgaaaaagg cataaatcca	1020
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aaaatcccaa aaacaaagaa catgaagaaa acaagccaat taatgtgggc actcggagag	1140
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gcaataggtc aagtgtcaag gcccatgttc ctgtatgtga gaaccaacgg aacctcaaaa	1740
attaagatga aatgggggat ggaaatgagg cgctgccttc ttcaatctct tcaacagatt	1800

Mit-0506.ST25.txt

gagagcatga tcgaggctga gtcttctatc aaagagaaag acatgaccaa agaattcttt	1860
gaaaacagat cggagacatg gccaatggga gagtcaccta agggagtggga ggaaggctcc	1920
atcgggaagg tgtgcagaac cttactagca aaatctgtgt tcaacagcct atattcatct	1980
ccacaactcg aaggattttc agctgaatcg agaaaactac tactcattgt tcaagcactt	2040
agggacaacc tggaacctgg aaccttcgat cttgaagggc tatatggagc aattgaggag	2100
tgcctgatta atgatccctg ggttttgctt aatgcatctt ggttcaactc cttcctcaca	2160
catgcactaa gatagtgttg gcaatgctac tatttgctat ccatactgtc caaaaaagta	2220
ccttgtttct act	2233

<210> 126

<211> 2233

<212> DNA

<213> Influenza virus type A PA segment

<400> 126

agcaaaagca ggtactgatc cgaaatggaa gactttgtgc gacaatgctt caatccaatg	60
attgtcgagc ttgcggaaaa gacaatgaag gaatatgggg aagacccgaa aattgaaaca	120
aataagttcg ctgcaatatg cacacactta gaagtctgct tcatgtattc agacttccat	180
ttcattgacg aacgaggcga atcaataatt gtggaatctg gtgatccaaa tgcattgttg	240
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aaggaaaacc gattcactga aattgggtgtg acacggaggg aagttcacat atattactta	420
gaaaaagcta acaagataaa atccgagaaa acacatatcc acatcttttc attcactgga	480
gaagaaatgg ccactaaagc tgactacacc cttgatgaag agagcagggc aagaataaaa	540
accagactat tcaccataag acaggaaaatg gcaagcaggg gtctatggga ttcctttcgt	600
cagtccgaga gaggcgaaga gacaattgaa gaaagatttg aaatcacagg gaccatgcgt	660
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aaaatcccaa aaacaaagaa catgaagaaa acaagccaat taatgtgggc actcggggag	1140
aatatggcac cggaaaaaatt ggactttgag gactgcaaag atattggcga tctgaaacag	1200

Mit-0506.ST25.txt

tatcaaagtg atgagccaga gctcagatcg atagcaagct ggatccagag tgagttcaac	1260
aaggcatgtg aattgaccga ttcgagctgg atagaactcg atgagatagg ggaagatgtt	1320
gccccaatg agcacattgc aagcatgaga aggaactact tcacagcgga agtgtctcat	1380
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tcttgtgcag ccatggatga cttccaactg attccaatga taagcaaatg cagaacaaaa	1500
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aatgatactg acgtggtgaa ctttgtgagt atggaattct cccttactga cccaaggctg	1620
gagccacaca aatgggaaaa gtactgtgtt cttgaagtag gggaaatgct cttgcggact	1680
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attaagatga aatgggggat ggaaatgaga cgctgccttc ttcaatctct tcaacagatt	1800
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gaaaacagat cggagacatg gccaattgga gagtcaccta agggagtgga ggaagggtca	1920
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agggacaacc tggaacctgg aacctttgat cttgaagggc tatatggagc aattgaggag	2100
tgctgatta atgatccctg ggttttgctt aatgcatctt ggttcaactc cttcctcaca	2160
catgcactaa aatagttgtg gcaatgctac tatttgctat ccatactgtc caaaaaagta	2220
ccttgtttct act	2233

<210> 127

<211> 2182

<212> DNA

<213> Influenza virus type A PA segment

<400> 127

agcgaaagca ggtactgatc caaaatggaa gattttgtgc gacaatgctt caatccgatg	60
attgtcgagc ttgcggaaaa aacaatgaaa gagtatgggg aggacctgaa aatcgaaaca	120
aacaaatttg cagcaatatg cactcacttg gaagtatgct tcatgtattc agatttcac	180
ttcatcaatg agcaaggcga gtcaataatc gtagaacttg gtgatcctaa tgcacttttg	240
aagcacagat ttgaaataat cgagggaaga gatcgacaaa tggcctggac agtagtaaac	300
agtatttgca acactacagg ggctgagaaa ccaaagtttc taccagattt gtatgattac	360
aaggaaaata gattcatcga aattggagta acaaggagag aagttcacat atactatctg	420
gaaaaggcca ataaaattaa atctgagaaa acacacatcc acattttctc gttcactggg	480
gaagaaatgg ccacaaaggc cgactacact ctcgatgaag aaagcagggc taggatcaaa	540
accaggctat tcaccataag acaagaaaatg gccagcagag gcctctggga ttcctttcgt	600

Mit-0506.ST25.txt

cagtccgaga gaggagaaga gacaattgaa gaaaggtttg aaatcacagg aacaatgcgc	660
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gtggatggat tcgaaccgaa cggctacatt gagggcaagc tgtctcaaatt gtccaaagaa	780
gtaaatgcta gaattgaacc ttttttgaaa acaacaccac gaccacttag acttccgaat	840
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gaggacccaa gtcatgaagg agaggggaata ccgctatatg atgcaatcaa atgcatgaga	960
acattctttg gatggaagga acccaatgtt gttaaaccac acgaaaaggg aataaatcca	1020
aattatcttc tgtcatggaa gcaagtactg gcagaactgc aggacattga gaatgaggag	1080
aaaattccaa agactaaaaa tatgaaaaaa acaagtcagc taaagtgggc acttggtgag	1140
aacatggcac tatgatagt atgaaccaga attgaggtcg cttgcaagtt ggattcagaa	1200
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aattgaggag tgcctaatta atgatccctg ggttttgctt aatgcttctt ggttcaactc	2100
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aaaaaagtac cttgtttcta ct	2182

<210> 128
 <211> 2233
 <212> DNA
 <213> Influenza virus type A PA segment

<400> 128	
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cagtccgaga gaggcgaaga gacaattgaa	gaaagatttg aaatcacagg aacaatgcgc	660
aagcttgccg accaaagtct cccgccaaac	ttctccagcc ttgaaaattt tagagcctat	720
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Mit-0506.ST25.txt

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tgcttgatta atgatccctg ggttttgctt aatgcttctt ggttcaactc cttcctcaca	2160
catgcattga gatagttgtg gcaatgctac tatttgctat ccatactgtc caaaaaagta	2220
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<210> 129

<211> 2183

<212> DNA

<213> Influenza virus type A PA segment

<400> 129

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aacaaattcg cagcaatatg cacacatttg gaagtgtgtt tcatgtattc agatttccac	180
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aagcaccgat ttgagataat tgaaggaaga gatcgcacga tggcctggac ggtggtgaat	300
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Mit-0506.ST25.txt

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caaaaaagta ccttgtttct act	2183

<210> 130

<211> 2090

<212> DNA

<213> Influenza virus type A PA segment

<400> 130

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catttggaag tgtgtttcat gtattcagac ttctacttca tcgatgagcg aggcgaatca	180
ataattgtag aatccggaga tccgaatgcc ctcttgaagc acagatttga aataattgag	240
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Mit-0506.ST25.txt

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<210> 131

<211> 2133

<212> DNA

<213> Influenza virus type A PA segment

<400> 131

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aacaaatttg cagcaatatg cactcacttg gaagtctgct tcatgtactc ggatttccac	180
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agtatctgca acaccacaag agctgaaaaa cccaagttcc tcccagattt gtacgactat	360
aaagagaaca ggtttggtga aattgggtgtg acaaggagag aagttcacat atactacttg	420

Mit-0506.ST25.txt

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ggttcaactc	cttccttaca	catgcactaa	agtagttgtg	gcaatgctac	tatttgctat	2100
ccatactgtc	caaaaaagta	ccttgtttct	act			2133

<210> 132
 <211> 2233
 <212> DNA

<213> Influenza virus type A PA segment

<400> 132

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Mit-0506.ST25.txt

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<210> 133
 <211> 1635
 <212> DNA
 <213> Influenza virus type A PA Segment

<400> 133	
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Mit-0506.ST25.txt

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aaggacatga ccaaagaatt ttttgaaaac aagtcggaga cgtggccgat tggagagtca	1380
cctaagggag tggaggaagg ctccatcggg aagggtgtgca ggaccttact agcaaagtct	1440
gtgttcaaca gcttgtatgc atctccacaa ctcgaggggt tttcagctga atcaagaaaa	1500
ctgttactca ttgttcaggc acttagggac aacctggaac ctggaacctt cgacattgaa	1560
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 agcgaaagca gg 12

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<400> 150
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<220>
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<220>
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 <220>
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 <220>
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 <400> 154
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 <210> 157
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 <400> 157
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<220>
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<220>
 <223> construct targeted to influenza virus type A NP segment and green fluorescent protein
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 <212> DNA
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<400> 176
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<400> 177
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<210> 178
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<220>
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<400> 178
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 <400> 185
 cgataatata actgcaaga 19

<210> 186
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 <212> DNA
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 <400> 186
 tcttgcagtt atattatcg 19

<210> 187
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 <400> 188

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